



Dart Aerospace Ltd.  
1270 Aberdeen St  
Hawkesbury, ON  
K6A 1K7  
Canada

Tel (613) 632-5200

**D407-558-045**  
**Job Sheet 172989**



**Part No:** D407-558-045

**Job Qty:** 1 ea

**Part Name:** Single Mirror Installation



**Part Weight:** 0 lbs

**Status:** Scheduled

**Priority:** Medium

**Job Created:** 2/23/18

**Job Tracking No:** reference SO 3442

**Due Date:** 3/6/18

**Created By:** Michelle Gagnon-Donovan

**Type:** SOLD

**Description:**

**Note:** DWG REV D IPP Rev:A 09-01-15 new issue DD verified by:ec IPP Rev:B 10.06.17 added grommet DD  
verf:EC IPP REV:C 11.01.19 AS PER chg002 DD VERF:EC IPP REV:D 12.04.04 AS PER chg003 DD  
VERF:EC

**Ship Via:**

### Bill of Materials

### Job Routing

| Op No | Operation          | Qty   | Start Date | Due Date | Standard  |         | Workcenter/Supplier   |           | Sign-off |
|-------|--------------------|-------|------------|----------|-----------|---------|-----------------------|-----------|----------|
|       |                    |       |            |          | Setup hrs | Run Hrs | Workcenter / Supplier | Lead Time |          |
| 90    | Start up Operation | 1 Ea  |            | 3/5/18   | 0.00      | 0.00    | Start Up Small Fab-4  |           |          |
| 110   | Small Fab          | 1 pcs |            | 3/6/18   | 0.00      | 1.01    | Small Fab-5           |           |          |
| 120   | QC                 | 1 pcs |            | 3/6/18   | 0.00      | 0.00    | QC5                   |           |          |
| 125   | Packaging          | 1 pcs |            | 3/6/18   | 0.00      | 0.00    | Packaging1-4          |           |          |
| 130   | QC                 | 1 pcs |            | 3/6/18   | 0.00      | 0.00    | QC4                   |           |          |
| 135   | DC                 | 1 pcs |            | 3/6/18   | 0.00      | 0.00    | DC                    |           |          |
| 140   | Packaging          | 1 pcs |            | 3/6/18   | 0.00      | 0.00    | Packaging3-2          |           |          |
| 150   | QC21-FG            | 1 Ea  |            | 3/6/18   | 0.00      | 0.00    | QC21                  |           |          |

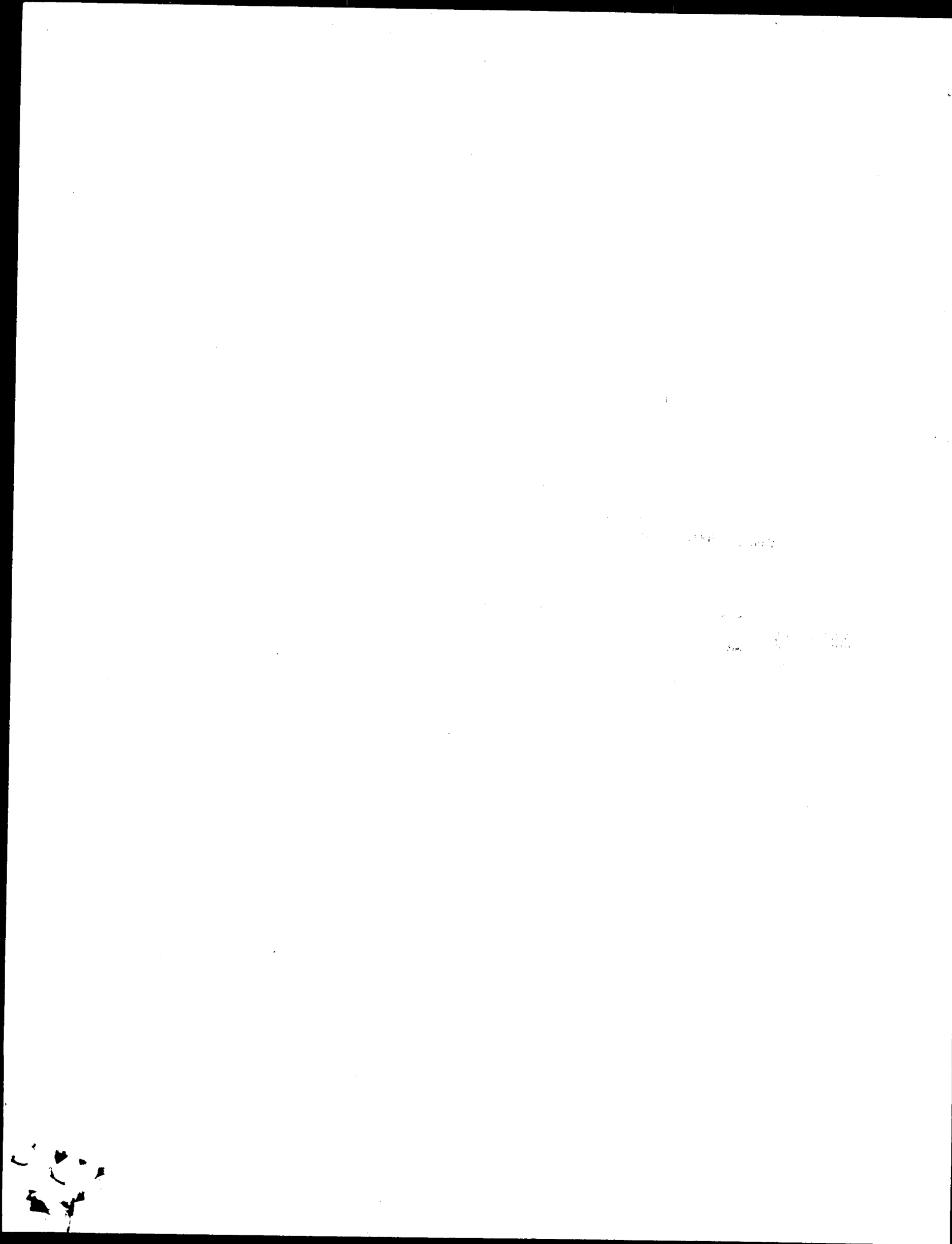
### Job BOM

| Part / Item   | Component Name      | Quantity    | Operation             | Container  |
|---------------|---------------------|-------------|-----------------------|------------|
| D2011-101     | Mirror 6"           | 1 Ea (1 ea) | 90-Start up Operation | 5015268 SJ |
| D2052         | Bracket             | 2 Ea (2 ea) | 90-Start up Operation | 5027179    |
| D2054         | Bushing - Delrin    | 2 Ea (2 ea) | 90-Start up Operation | 5031100    |
| D2055         | Clamp               | 1 Ea (1 ea) | 90-Start up Operation | 5018488    |
| D2056         | Bell Crank Assembly | 1 Ea (1 ea) | 90-Start up Operation | 5020962    |
| D2057         | Plug                | 1 Ea (1 ea) | 90-Start up Operation | F152226    |
| D2065         | Mirror Arm          | 1 Ea (1 ea) | 90-Start up Operation | F161746 SJ |
| MS21042L3     | Nut                 | 2 Ea (2 ea) | 90-Start up Operation | 5038764 SJ |
| MS27039-1-18  | Screw               | 2 Ea (2 ea) | 90-Start up Operation | F124326 SJ |
| MS35489-67    | Grommet             | 1 Ea (1 ea) | 90-Start up Operation | F151500 SJ |
| MS35489-9     | Grommet             | 1 Ea (1 ea) | 90-Start up Operation |            |
| NAS1149D0363J | Washer              | 4 Ea (4 ea) | 90-Start up Operation | 5015269 SJ |
| AN3-4A        | Bolt                | 4 Ea (4 ea) | 125-Packaging         |            |
| AN526-1032R9  | Screw               | 4 Ea (4 ea) | 125-Packaging         |            |
| D2053         | Bracket             | 1 Ea (1 ea) | 125-Packaging         |            |
| D2067         | Connector           | 1 Ea (1 ea) | 125-Packaging         |            |
| D2071-5       | Cable               | 1 Ea (1 ea) | 125-Packaging         |            |
| D3778-3       | Bracket             | 1 Ea (1 ea) | 125-Packaging         |            |
| MS21042L3     | Nut                 | 1 Ea (1 ea) | 125-Packaging         |            |
| MS21919-DG5   | Clamp               | 2 Ea (2 ea) | 125-Packaging         |            |
| NAS1149D0332J | Washer              | 6 Ea (6 ea) | 125-Packaging         |            |

001355

001545

Plex 2/23/18 1:20 PM Dart. Gagnon.Michelle



| Job Allocations                    |                |          |           |           |
|------------------------------------|----------------|----------|-----------|-----------|
| Operation                          | Component Part | Required | Inventory | Allocated |
| 90-Start up Operation              | D2011-101      | 1        | 53        | 0         |
|                                    | D2052          | 2        | 25        | 0         |
|                                    | D2054          | 2        | 41        | 0         |
|                                    | D2055          | 1        | 15        | 0         |
|                                    | D2056          | 1        | 11        | 0         |
|                                    | D2057          | 1        | 22        | 0         |
|                                    | D2065          | 1        | 6         | 0         |
|                                    | MS21042L3      | 2        | 3,421     | 0         |
|                                    | MS27039-1-18   | 2        | 1,388     | 0         |
|                                    | MS35489-67     | 1        | 33        | 0         |
|                                    | MS35489-9      | 1        | 42        | 0         |
|                                    | NAS1149D0363J  | 4        | 3,429     | 0         |
| 125-Packaging                      | AN3-4A         | 4        | 310       | 0         |
|                                    | AN526-1032R9   | 4        | 100       | 0         |
|                                    | D2053          | 1        | 14        | 0         |
|                                    | D2067          | 1        | 7         | 0         |
|                                    | D2071-5        | 1        | 7         | 0         |
|                                    | D3778-3        | 1        | 5         | 0         |
|                                    | MS21042L3      | 1        | 3,421     | 0         |
|                                    | MS21919-DG5    | 2        | 41        | 0         |
|                                    | NAS1149D0332J  | 6        | 3,722     | 0         |
|                                    |                |          |           |           |
| Part Specifications                |                |          |           |           |
| Specifications could not be found. |                |          |           |           |

Plex 2/23/18 1:20 PM Dart.Gagnon.Michelle



Container No: S048312



Part: D407 - 558 - 045

Job No: 172989

Serial No/Batch: S048312

Revision:

Inspector:

Dart Aerospace Ltd.  
 1270 Aberdeen Street  
 Hawkesbury, ON K6A 1K7  
 CANADA  
 TEL.: 1 613 632-5200  
 Email: sales@dartaero.com  
 www.dartaerospace.com

Date: 03/06/18



DQA: \_\_\_\_\_ Date: \_\_\_\_\_



# WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: **DAS 53** Date: **DEC 14 2018**Work Order update only ☐

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| Work Order: <b>9-18-2989</b><br><del><b>D407-558-045</b></del><br><br>Part No. <b>D407-558-045</b><br><br>NCR No. <b>18-7043</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | <b>DISPOSITION</b><br><br>Rework <input type="checkbox"/><br>Scrap <input checked="" type="checkbox"/><br>Use-as-is <input type="checkbox"/><br>Suspected Unapproved <input type="checkbox"/> | <b>AGAINST DEPARTMENT/PROCESS</b><br><br><table style="width:100%; font-size: small;"> <tr> <td>Skid-tube <input type="checkbox"/></td> <td>Cross tube <input type="checkbox"/></td> <td>Water Jet <input type="checkbox"/></td> <td>Engineering <input type="checkbox"/></td> </tr> <tr> <td>Machining <input type="checkbox"/></td> <td>Small Fab <input checked="" type="checkbox"/></td> <td>Prod. Eng. Coord. <input type="checkbox"/></td> <td>Quality <input type="checkbox"/></td> </tr> <tr> <td>Thermoforming <input type="checkbox"/></td> <td>Finishing <input type="checkbox"/></td> <td>Rec/Store/Packaging <input type="checkbox"/></td> <td>Other <input type="checkbox"/></td> </tr> <tr> <td>Large Fab <input type="checkbox"/></td> <td>Composite <input type="checkbox"/></td> <td>Supplier <input type="checkbox"/></td> <td></td> </tr> </table> |                                           |                                                                                                                                      |                          | Skid-tube <input type="checkbox"/> | Cross tube <input type="checkbox"/> | Water Jet <input type="checkbox"/> | Engineering <input type="checkbox"/> | Machining <input type="checkbox"/> | Small Fab <input checked="" type="checkbox"/> | Prod. Eng. Coord. <input type="checkbox"/> | Quality <input type="checkbox"/> | Thermoforming <input type="checkbox"/> | Finishing <input type="checkbox"/> | Rec/Store/Packaging <input type="checkbox"/> | Other <input type="checkbox"/> | Large Fab <input type="checkbox"/> | Composite <input type="checkbox"/> | Supplier <input type="checkbox"/> |                          |          |                          |                 |                          |                    |                          |                  |                          |                  |                          |         |                          |     |                          |                     |                          |            |                          |                     |                          |                  |                          |                       |                          |               |                          |          |                          |                             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| Skid-tube <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     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| Machining <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Small Fab <input checked="" type="checkbox"/>                                                                                                                                                 | Prod. Eng. Coord. <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Quality <input type="checkbox"/>          |                                                                                                                                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| Thermoforming <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 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| Large Fab <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     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           |                          |                       |                          |                  |                          |
| Date : <b>18-3-6</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Step #: <b>110</b>                                                                                                                                                                            | QTY Effective : <b>①</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | MRB (QSI042) Approval<br><b>PD 18-3-6</b> |                                                                                                                                      |                          |                                    |                                     |                                    |                                      |                                    |                                               |                                            |                                  |                                        |                                    |                                              |                                |                                    |                                    |                                   |                          |          |                          |                 |                          |                    |                          |                  |                          |                  |                          |         |                          |     |                          |                     |                          |            |                          |                     |                          |                  |                          |                       |                          |               |                          |          |                          |                                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| Description Work Order Deviation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       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| <b>stud striped into ball mount</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                               | <b>Scrap destroy and replace</b><br><b>D2011-101</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                           | Completed By<br><br><br>Lead hand / Supervisor Approval Verification<br><br><br><br>QC / QA Coordinator Approval<br><b>PD 18-3-6</b> |                          |                                    |                                     |                                    |                                      |                                    |                                               |               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| <b>Root Cause</b><br><table style="width:100%; font-size: x-small;"> <tr><td>Environment</td><td><input type="checkbox"/></td><td>No Re-verification</td><td><input type="checkbox"/></td></tr> <tr><td>Design</td><td><input type="checkbox"/></td><td>Operator</td><td><input checked="" type="checkbox"/></td></tr> <tr><td>Doc/Data</td><td><input type="checkbox"/></td><td>Offset/Setup</td><td><input type="checkbox"/></td></tr> <tr><td>Equip/Tooling</td><td><input type="checkbox"/></td><td>Supplier</td><td><input type="checkbox"/></td></tr> <tr><td>Handling/Pre</td><td><input type="checkbox"/></td><td>Training</td><td><input type="checkbox"/></td></tr> <tr><td>Material</td><td><input type="checkbox"/></td><td>Use for Testing</td><td><input type="checkbox"/></td></tr> <tr><td>Internal Transport</td><td><input type="checkbox"/></td><td>Poor Information</td><td><input type="checkbox"/></td></tr> <tr><td>Tribal Knowledge</td><td><input type="checkbox"/></td><td>Rushing</td><td><input type="checkbox"/></td></tr> <tr><td>LOA</td><td><input type="checkbox"/></td><td>Product Improvement</td><td><input type="checkbox"/></td></tr> <tr><td>Substation</td><td><input type="checkbox"/></td><td>Process Improvement</td><td><input type="checkbox"/></td></tr> <tr><td>Past Expiry Date</td><td><input type="checkbox"/></td><td>Manufacturing Process</td><td><input type="checkbox"/></td></tr> <tr><td>Misidentified</td><td><input type="checkbox"/></td><td>Past Due</td><td><input type="checkbox"/></td></tr> </table> |                                                                                                                                                                                               | Environment                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | <input type="checkbox"/>                  | No Re-verification                                                                                                                   | <input type="checkbox"/> | Design                             | <input type="checkbox"/>            | Operator                           | <input checked="" type="checkbox"/>  | Doc/Data                           | <input type="checkbox"/>                      | Offset/Setup                               | <input type="checkbox"/>         | Equip/Tooling                          | <input type="checkbox"/>           | Supplier                                     | <input type="checkbox"/>       | Handling/Pre                       | <input type="checkbox"/>           | Training                          | <input type="checkbox"/> | Material | <input type="checkbox"/> | Use for Testing | <input type="checkbox"/> | Internal Transport | <input type="checkbox"/> | Poor Information | <input type="checkbox"/> | Tribal Knowledge | <input type="checkbox"/> | Rushing | <input type="checkbox"/> | LOA | <input type="checkbox"/> | Product Improvement | <input type="checkbox"/> | Substation | <input type="checkbox"/> | Process Improvement | <input type="checkbox"/> | Past Expiry Date | <input type="checkbox"/> | Manufacturing Process | <input type="checkbox"/> | Misidentified | <input type="checkbox"/> | Past Due | <input type="checkbox"/> | <b>FAULT CATEGORY</b><br><table style="width:100%; font-size: x-small;"> <tr><td>Pressure/Forced</td><td><input type="checkbox"/></td><td>Temperature/Cure</td><td><input type="checkbox"/></td><td>Power Loss/Surge</td><td><input type="checkbox"/></td><td>Positioned Wrong</td><td><input type="checkbox"/></td></tr> <tr><td>Bending</td><td><input type="checkbox"/></td><td>Set-up</td><td><input type="checkbox"/></td><td>Folio/Program</td><td><input type="checkbox"/></td><td>Outside Dimensions</td><td><input type="checkbox"/></td></tr> <tr><td>Centre Not Concentric</td><td><input type="checkbox"/></td><td>BOM/Route</td><td><input type="checkbox"/></td><td>Grain</td><td><input type="checkbox"/></td><td>Over/Under tolerance</td><td><input type="checkbox"/></td></tr> <tr><td>Cracks</td><td><input type="checkbox"/></td><td>Broken/Damage/Defect</td><td><input checked="" type="checkbox"/></td><td>Weld</td><td><input type="checkbox"/></td><td>Part Incorrect</td><td><input type="checkbox"/></td></tr> <tr><td>Crimp/Kink/Ripple/Wave</td><td><input type="checkbox"/></td><td>Inspection Incomplete/Unqualified</td><td><input type="checkbox"/></td><td>Wrong Stock Pulled</td><td><input type="checkbox"/></td><td>Part Lost/Missing</td><td><input type="checkbox"/></td></tr> <tr><td>Cuffs</td><td><input type="checkbox"/></td><td>Contamination</td><td><input type="checkbox"/></td><td>Out of Sequence</td><td><input type="checkbox"/></td><td>Part Moved</td><td><input type="checkbox"/></td></tr> <tr><td>Crushing</td><td><input type="checkbox"/></td><td>Countersink</td><td><input type="checkbox"/></td><td>Off-set</td><td><input type="checkbox"/></td><td>Drawing</td><td><input type="checkbox"/></td></tr> <tr><td>Heat Treat</td><td><input type="checkbox"/></td><td>Cut Too Short</td><td><input type="checkbox"/></td><td>Mislabeled</td><td><input type="checkbox"/></td><td>Finish</td><td><input type="checkbox"/></td></tr> <tr><td>Wave/Twist in Tube</td><td><input type="checkbox"/></td><td>Instructions Incomplete/Unclear</td><td><input type="checkbox"/></td><td>Fit/Function</td><td><input type="checkbox"/></td><td>Misread</td><td><input type="checkbox"/></td></tr> <tr><td>Marks/Chatter</td><td><input type="checkbox"/></td><td>Drill Holes</td><td><input type="checkbox"/></td><td>Misaligned/off center</td><td><input type="checkbox"/></td><td>Turning Sequence</td><td><input type="checkbox"/></td></tr> </table> |  |  | Pressure/Forced | <input type="checkbox"/> | Temperature/Cure | <input type="checkbox"/> | Power Loss/Surge | <input type="checkbox"/> | Positioned Wrong | <input type="checkbox"/> | Bending | <input type="checkbox"/> | Set-up | <input type="checkbox"/> | Folio/Program | <input type="checkbox"/> | Outside Dimensions | <input type="checkbox"/> | Centre Not Concentric | <input type="checkbox"/> | BOM/Route | <input type="checkbox"/> | Grain | <input type="checkbox"/> | Over/Under tolerance | <input type="checkbox"/> | Cracks | <input type="checkbox"/> | Broken/Damage/Defect | <input checked="" type="checkbox"/> | Weld | <input type="checkbox"/> | Part Incorrect | <input type="checkbox"/> | Crimp/Kink/Ripple/Wave | <input type="checkbox"/> | Inspection Incomplete/Unqualified | <input type="checkbox"/> | Wrong Stock Pulled | <input type="checkbox"/> | Part Lost/Missing | <input type="checkbox"/> | Cuffs | <input type="checkbox"/> | Contamination | <input type="checkbox"/> | Out of Sequence | <input type="checkbox"/> | Part Moved | <input type="checkbox"/> | Crushing | <input type="checkbox"/> | Countersink | <input type="checkbox"/> | Off-set | <input type="checkbox"/> | Drawing | <input type="checkbox"/> | Heat Treat | <input type="checkbox"/> | Cut Too Short | <input type="checkbox"/> | Mislabeled | <input type="checkbox"/> | Finish | <input type="checkbox"/> | Wave/Twist in Tube | <input type="checkbox"/> | Instructions Incomplete/Unclear | <input type="checkbox"/> | Fit/Function | <input type="checkbox"/> | Misread | <input type="checkbox"/> | Marks/Chatter | <input type="checkbox"/> | Drill Holes | <input type="checkbox"/> | Misaligned/off center | <input type="checkbox"/> | Turning Sequence | <input type="checkbox"/> |
| Environment                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            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| Substation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             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           |                          |                       |                          |                  |                          |
| Past Expiry Date                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       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| Misidentified                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          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| Pressure/Forced                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        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                             |                                  |                                        |                                    |                                              |                                |                                    |                                    |                                   |                          |          |                          |                 |                          |                    |                          |                  |                          |                  |                          |         |                          |     |                          |                     |                          |            |                          |                     |                          |                  |                          |                       |                          |               |                          |          |                          |                                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| Bending                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | <input type="checkbox"/>                  | Folio/Program                                                                                                                        | <input type="checkbox"/> | Outside Dimensions                 | <input type="checkbox"/>            |                                    |                                      |                                    |                                               |                                            |                                  |                                        |                                    |                                              |                                |                                    |                                    |                                   |                          |          |                          |                 |                          |                    |                          |                  |                          |                  |                          |         |                          |     |                          |                     |                          |            |                          |                     |                          |                  |                          |                       |                          |               |                          |          |                          |                                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| Centre Not Concentric                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | <input type="checkbox"/>                  | Grain                                                                                                                                | <input type="checkbox"/> | Over/Under tolerance               | <input type="checkbox"/>            |                                    |                                      |                                    |                                               |                                            |                                  |                                        |                                    |                                              |                                |                                    |                                    |                                   |                          |          |                          |                 |                          |                    |                          |                  |                          |                  |                          |         |                          |     |                          |                     |                          |            |                          |                     |                          |                  |                          |                       |                          |               |                          |          |                          |                                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           |                          |                       |                          |                  |                          |
| Cracks                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | <input type="checkbox"/>                                                                                                                                                                      | Broken/Damage/Defect                                                                                                                                                                                                                                                                                    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                             |                                  |                                        |                                    |                                              |                                |                                    |                                    |                                   |                          |          |                          |                 |                          |                    |                          |                  |                          |                  |                          |         |                          |     |                          |                     |                          |            |                          |                     |                          |                  |                          |                       |                          |               |                          |          |                          |                                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| Crimp/Kink/Ripple/Wave                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 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                             |                                  |                                        |                                    |                                              |                                |                                    |                                    |                                   |                          |          |                          |                 |                          |                    |                          |                  |                          |                  |                          |         |                          |     |                          |                     |                          |            |                          |                     |                          |                  |                          |                       |                          |               |                          |          |                          |                                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| Cuffs                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | <input type="checkbox"/>                  | Out of Sequence                                                                                                                      | <input type="checkbox"/> | Part Moved                         | <input type="checkbox"/>            |                                    |                                      |                                    |                                               |                                            |                                  |                                        |                                    |                                              |                                |                                    |                                    |                                   |                          |          |                          |                 |                          |                    |                          |                  |                          |                  |                          |         |                          |     |                          |                     |                          |            |                          |                     |                          |                  |                          |                       |                          |               |                          |          |                          |                                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| Crushing                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               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| Heat Treat                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             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                             |                                  |                                        |                                    |                                              |                                |                                    |                                    |                                   |                          |          |                          |                 |                          |                    |                          |                  |                          |                  |                          |         |                          |     |                          |                     |                          |            |                          |                     |                          |                  |                          |                       |                          |               |                          |          |                          |                                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| Wave/Twist in Tube                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     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           |                          |                       |                          |                  |                          |
| Marks/Chatter                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          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                             |                                  |                                        |                                    |                                              |                                |                                    |                                    |                                   |                          |          |                          |                 |                          |                    |                          |                  |                          |                  |                          |         |                          |     |                          |                     |                          |            |                          |                     |                          |                  |                          |                       |                          |               |                          |          |                          |                                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           |                          |                       |                          |                  |                          |



Dart Aerospace Ltd.  
1270 Aberdeen St  
Hawkesbury, ON  
K6A 1K7  
Canada

Tel (613) 632-5200

## Container View (Active) - Master Unit Containers

| Master Unit No | Container No | Part No       | Part Name | From Container | Current Location | Quantity |
|----------------|--------------|---------------|-----------|----------------|------------------|----------|
| 001545         | S049528      | AN3-4A        | Bolt      | S019388        | ST350            | 4        |
| 001545         | S049526      | AN526-1032R9  | Screw     | FM137736-4     | ST327            | 4        |
| 001545         | S049525      | D2053         | Bracket   | F108842        | ST001            | 1        |
| 001545         | S049524      | D2067         | Connector | F105444        | ST001            | 1        |
| 001545         | S049523      | D2071-5       | Cable     | F154862        | ST216            | 1        |
| 001545         | S049522      | D3778-3       | Bracket   | F145811        | ST051            | 1        |
| 001545         | S049521      | MS21042L3     | Nut       | S038764        | ST303            | 1        |
| 001545         | Fm137361.0   | MS21919-DG5   | Clamp     |                | ST294            | 2        |
| 001545         | S049520      | MS35489-67    | Grommet   | F121600        | ST269            | 1        |
| 001545         | S049519      | MS35489-9     | Grommet   | FM136044       | ST270            | 1        |
| 001545         | S049518      | NAS1149D0332J | Washer    | S020606        | ST264            | 6        |

Note: Ad hoc query view of Part.dbo.Container where Container.Active = 1.

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REFERENCE ONLY

## 4.0 WEIGHT AND BALANCE

| Installation           | Weight  | LATERAL |             | LONGITUDINAL |             |
|------------------------|---------|---------|-------------|--------------|-------------|
|                        |         | Arm     | Moment      | Arm          | Moment      |
| D206-558-041           | 2.4 lb  | +5.0 in | +12.0 in-lb | +14.8 in     | +35.5 in-lb |
| Bell 206A/B/L/L1/L3/L4 | 1.09 Kg | +0.13 m | +0.14 m-Kg  | +0.38 m      | +0.41 m-Kg  |
| D206-558-043           | 3.0 lb  | 0.0 in  | 0.0 in-lb   | +14.8 in     | +44.4 in-lb |
| Bell 206A/B/L/L1/L3/L4 | 1.36 Kg | 0.0 m   | 0.0 m-Kg    | +0.38 m      | +0.52 m-Kg  |
| D407-558-045           | 2.4 lb  | +5.0 in | +12.0 in-lb | +14.8 in     | +35.5 in-lb |
| Bell 407               | 1.09 Kg | +0.13 m | +0.14 m-Kg  | +0.38 m      | +0.41 m-Kg  |
| D407-558-047           | 3.0 lb  | 0.0 in  | 0.0 in-lb   | +14.8 in     | +44.4 in-lb |
| Bell 407               | 1.36 Kg | 0.0 m   | 0.0 m-Kg    | +0.38 m      | +0.52 m-Kg  |

## 5.0 PARTS LIST

| Qty<br>-041 | Qty<br>-043 | Qty<br>-045 | Qty<br>-047 | Part Number     | Description                  |
|-------------|-------------|-------------|-------------|-----------------|------------------------------|
| X           |             |             |             | D206-558-041    | SINGLE CARGO MIRROR ASSEMBLY |
|             | X           |             |             | D206-558-043    | DUAL CARGO MIRROR ASSEMBLY   |
|             |             | X           |             | D407-558-045    | SINGLE CARGO MIRROR ASSEMBLY |
|             |             |             | X           | D407-558-047    | DUAL CARGO MIRROR ASSEMBLY   |
| 1           | 2           | 1           | 2           | D2011-101       | MIRROR ASSEMBLY              |
| 2           | 2           | 2           | 2           | D2052**         | BRACKET                      |
| 1           | 1           | 1           | 1           | D2053           | BRACKET                      |
| 2           | 2           | 2           | 2           | D2054**         | BUSHING                      |
| 1           | 1           | 1           | 1           | D2055**         | CLAMP                        |
| 1           | 1           | 1           | 1           | D2056**         | BELLCRANK ASSEMBLY           |
| 1           |             | 1           |             | D2057           | PLUG                         |
| 1           |             | 1           |             | D2065           | ARM                          |
|             | 1           |             | 1           | D2066           | ARM                          |
| 1           | 1           | 1           | 1           | D2067           | CONNECTOR                    |
| 1           | 1           |             |             | D2071           | CABLE ASSEMBLY               |
|             |             | 1           | 1           | D2071-5         | CABLE ASSEMBLY               |
| 1           | 2           | 1           | 2           | D3014-1*        | LOCKNUT                      |
| 1           | 1           |             |             | D3778-1         | BRACKET                      |
|             |             | 1           | 1           | D3778-3         | BRACKET                      |
| 4           | 4           | 4           | 4           | AN3-4A          | BOLT                         |
| 4           | 4           | 4           | 4           | AN526-1032R9    | SCREW                        |
| 1           | 2           | 1           | 2           | NAS1149D0416P*  | WASHER (AN960JD416L)         |
| 4           | 4           | 4           | 4           | NAS1149D0363P** | WASHER (AN960JD10)           |
| 6           | 6           | 6           | 6           | NAS1149D0332P   | WASHER (AN960JD10L)          |
| 3           | 1           | 3           | 1           | MS21042-3       | NUT (or MS21042L3)           |
|             | 2           |             | 2           | MS21042-3**     | NUT (or MS21042L3)           |
| 2           | 2           | 2           | 2           | MS21919DG5      | CLAMP                        |
| 2           | 2           | 2           | 2           | MS27039-1-18**  | SCREW                        |
| 1           | 1           | 1           | 1           | MS35489-9       | GROMMET                      |
| 1           | 1           | 1           | 1           | MS35489-67      | GROMMET                      |

\* INCLUDED AS PART OF D2011-101 MIRROR ASSEMBLY

\*\* INCLUDED AS PART OF D2066 ARM (REF. -043/-047 ONLY)